

mAb 5B12.3INVESTIGATOR

Name John Cooper  
 Address Department of Cell Biology & Physiology, Washington University Medical School,  
 660 S. Euclid, St. Louis, MO 63110  
 Phone (314) 362-3964

IMMUNOGENSubstance

Name GST-capping protein- $\alpha$ 1-subunit from chicken  
 Origin expressed in E. Coli  
 Chemical Composition protein

Developmental StageIMMUNIZATION PROTOCOLDonor Animal

Species mouse  
 Strain Balb/C  
 Sex female  
 Organ and tissue

Immunization

Dates immunized 4/92  
 Amount of antigen  
 Route of immunization subcutaneous  
 Adjuvant Freund's complete

FUSION

Date 6/92

Myeloma cell line

Species mouse  
 Designation P3x63 Ag8.653

MONOCLONAL ANTIBODY

Isotype IgG2a, kappa light chain -can be purified on protein A

Specificity

Cell binding no  
 Immunohistology yes  
 Antibody competition  
Species Specificity chicken, mouse, human

ANTIGEN

Chemical properties protein-antibody reacts with capping protein  $\alpha$ 1 and  $\alpha$ 2 subunits

Molecular weight ~34 kDa

Characterization

Immunoprecipitation yes  
 Immunoblotting yes  
 Purification  
 Amino acid sequence analysis

Functional effects

Immunohistochemistry yes

PUBLICATIONS :

Schafer, D.A., Jennings, P.B., and Cooper, J.A. (1996). Dynamics of capping protein and actin assembly in vitro: uncapping barbed ends by polyphosphoinositides. J. Cell Biol. 135(1), 169-179.

## mAb 3F2.3

### INVESTIGATOR

**Name** John Cooper  
**Address** Department of Cell Biology & Physiology, Washington University Medical School,  
660 S. Euclid, St. Louis, MO 63110  
**Phone** (314) 362-3964

### IMMUNOGEN

#### Substance

**Name** GST-C-term of  $\beta$ 2-subunit-fusion protein of GST with 27 amino acids at the C-terminus of  
chicken capping protein  $\beta$ 2-subunit  
**Origin** expressed in E. Coli

**Chemical Composition** protein

**Developmental Stage** all

### IMMUNIZATION PROTOCOL

#### Donor Animal

**Species** mouse

**Strain** Balb/C

**Sex** female

**Organ and tissue**

#### Immunization

**Dates immunized** 8/93

**Amount of antigen**

**Route of immunization** subcutaneous

**Adjuvant** Freund's complete

### FUSION

**Date** 10/93

#### Myeloma cell line

**Species** mouse

**Designation** P3x63 Ag8.653

### MONOCLONAL ANTIBODY

**Isotype** best guess IgG - can be purified on protein A

#### Specificity

**Cell binding** no

**Immunohistology** cell-cell junctions, cytosol

**Antibody competition**

**Species Specificity** chicken, mouse, human have been tested

### ANTIGEN

#### Chemical properties

**Molecular weight** reacts with capping protein - $\beta$ 2-subunit

#### Characterization

**Immunoprecipitation** yes

**Immunoblotting** yes

**Purification**

**Amino acid sequence analysis**

#### Functional effects

**Immunohistochemistry** yes

### PUBLICATIONS :

Schafer, D.A., Jennings, P.B., and Cooper, J.A. (1996). Dynamics of capping protein and actin assembly in vitro: uncapping barbed ends by polyphosphoinositides. J. Cell Biol. 135(1), 169-179.

mAb 1E5.25.4

INVESTIGATOR

Name John Cooper  
Address Department of Cell Biology & Physiology, Washington University Medical School,  
660 S. Euclid, St. Louis, MO 63110  
Phone (314) 362-3964

IMMUNOGEN

Substance

Name capping protein -  $\beta$ -1  
Origin chicken skeletal muscle  
Chemical Composition pure protein  
Developmental Stage all

IMMUNIZATION PROTOCOL

Donor Animal

Species mouse  
Strain P3x63 Ag8.653  
Sex female  
Organ and tissue

Immunization

Dates immunized 11/87  
Amount of antigen  
Route of immunization subcutaneous  
Adjuvant Freund's complete

FUSION

Date 2/88  
Myeloma cell line  
Species mouse  
Designation P3x63 Ag8.653

MONOCLONAL ANTIBODY

Isotype IgG  
Specificity  
Cell binding no  
Immunohistology yes  
Antibody competition  
Species Specificity chicken

ANTIGEN

Chemical properties chicken capping protein  $\beta$ 1-subunit  
Molecular weight  
Characterization  
Immunoprecipitation yes  
Immunoblotting yes  
Purification  
Amino acid sequence analysis  
Functional effects  
Immunohistochemistry antigen located at Z-disks of skeletal muscle

PUBLICATIONS :

Hung, C., Miller, T.M., Torres, M.A., Casella, J.F., and Cooper, J.A. (1992). Identification and characterization of an actin-binding site of CapZ. J. Cell Biol. 116(4), 923-931.